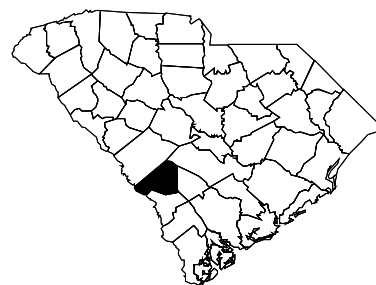


# IMPACT OF CHRONIC CONDITIONS BARNWELL County, 2005



In the year 2005, the leading causes of death among South Carolinians were heart disease, cancer, stroke, accidents, chronic lower respiratory disease, Alzheimer's disease, diabetes, nephritis, nephritic syndrome, nephrosis, pneumonia and influenza and septicemia. This report focuses on the chronic conditions of the population of Barnwell county, and is compared to the overall chronic conditions of the population of South Carolina as a whole.

The distribution of Barnwell county's population is similar to the state population. The majority (36%) of the population in Barnwell county are between the ages of 18-44. There are more females (52%) than males (48%). Barnwell county has a higher minority population (44%), and a higher population under the age of 18 (26%) than the state (31% and 24%, respectively). When adults in DHEC's Region 5, which includes Barnwell County, were asked about their general health status, 79.0% reported having excellent, very good, or good health in 2005 (SC was 82%).

	BARNWELL COUNTY	STATE
<b>Population size</b>	23,345	4,255,083
<b>Age distribution (%)</b>		
<18	26	24
18-44	36	38
45-64	26	25
65-84	11	11
85+	2	2
<b>Race (%)</b>		
White	56	69
Black & Other	44	31
<b>Sex (%)</b>		
Male	48	49
Female	52	51

In spite of the overall reports of good health given by the citizens of the Palmetto State, chronic conditions are still making an impact on the health of many South Carolinians. Through primary and secondary prevention we hope to reduce the risk factors that contribute to the major chronic diseases and leading causes of death among South Carolinians.

The chart below contains the risk factors that contribute to an increased risk of developing a chronic condition. These risk factors are related to the major causes of morbidity and mortality among South Carolinians. Some common behavioral risk factors that contribute to the leading causes of death are smoking, sedentary lifestyle, obesity, and high cholesterol. The prevalence of these risk factors from the 2005 South Carolina Behavioral Risk Factor Surveillance System (BRFSS) survey are listed in the table below for Barnwell County.

RISK FACTOR	COUNTY (%)	STATE (%)
Current smoking	23	22
Sedentary lifestyle	23	26
Overweight	68	65
High Cholesterol	35	37

Some preventive measures such as immunization were included in the 2005 SC BRFSS. For persons age 65 and older in South Carolina:

39.1% have not received the flu shot in the past 12 months

34.4% have never had the pneumonia vaccination

Hospital/ED data in the following tables include ONLY those cases treated in SC hospitals. Cases treated in hospitals outside of SC are NOT included.

<b>HYPERTENSION AND HYPERTENSIVE DISEASE</b>	<b>County</b>					<b>State</b>
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)	29.4	.	.	.	.	31.7
Number of hospitalizations	35	25	6	18	17	5,032
Crude rate of hospitalizations (per 100,000)	150	244	46	161	140	118
Median age of hospitalized patients	57	62	57	52	62	57
Total cost of hospitalization (\$)	443,800	333,100	110,700	309,200	134,600	109,400,500
Average length of hospital stay (days)	5	5	6	7	3	5
Number of ED visits	78	51	27	39	39	7,466
Crude rate of ED visits (per 100,000)	334	497	206	348	321	175
Median age of ED patients	52	47	62	47	57	52
Total cost of ED visits (\$)	58,300	38,400	19,900	33,400	24,900	9,929,000
Number of deaths**	4	3	1	2	2	423
Age-Adjusted Death rate (per 100,000)**	16	33	6	24	13	10

<b>DISEASES OF THE HEART</b>	<b>County</b>					<b>State</b>
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	4.8	.	.	.	.	4.1
Number of hospitalizations	342	144	189	175	167	60,901
Crude rate of hospitalizations (per 100,000)	1,465	1,404	1,444	1,561	1,377	1,431
Median age of hospitalized patients	67	62	67	62	72	67
Total cost of hospitalization (\$)	10,107,600	3,971,700	6,135,900	5,977,700	4,129,900	2,286,836,400
Average length of hospital stay (days)	4	4	4	5	4	5
Number of ED visits	197	85	111	93	104	12,989
Crude rate of ED visits (per 100,000)	844	829	848	829	857	305
Median age of ED patients	62	57	62	62	62	62
Total cost of ED visits (\$)	375,700	138,000	237,700	197,900	177,800	42,115,900
Number of deaths**	59	22	37	22	37	9,328
Age-Adjusted Death rate (per 100,000)**	236	252	225	243	228	218

<b>STROKE</b>	<b>County</b>					<b>State</b>
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	3.3	.	.	.	.	3
Number of hospitalizations	83	35	46	33	50	13,925
Crude rate of hospitalizations (per 100,000)	356	341	351	294	412	327
Median age of hospitalized patients	72	62	75	67	72	72
Total cost of hospitalization (\$)	1,516,800	818,400	698,400	679,800	837,000	384,441,600
Average length of hospital stay (days)	5	7	4	5	5	6
Number of ED visits	35	18	16	16	19	2,515
Crude rate of ED visits (per 100,000)	150	175	122	143	157	59
Median age of ED patients	67	60	67	67	67	67
Total cost of ED visits (\$)	88,000	46,900	41,100	38,800	49,200	9,113,000
Number of deaths**	17	8	9	4	13	2,440
Age-Adjusted Death rate (per 100,000)**	69	90	55	42	87	59

<b>CHRONIC OBSTRUCTIVE PULMONARY DISEASE</b>	<b>County</b>					<b>State</b>
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	88	34	53	41	47	15,753
Crude rate of hospitalizations (per 100,000)	377	331	405	366	387	370
Median age of hospitalized patients	67	67	67	67	67	62
Total cost of hospitalization (\$)	882,800	399,600	483,200	380,900	501,900	268,425,300
Average length of hospital stay (days)	4	4	4	3	4	5
Number of ED visits	385	231	147	177	208	36,543
Crude rate of ED visits (per 100,000)	1,649	2,252	1,123	1,579	1,714	859
Median age of ED patients	32	27	42	22	37	37
Total cost of ED visits (\$)	233,700	134,400	99,300	104,200	129,500	40,613,700
Number of deaths**	15	4	11	7	8	1,968
Age-Adjusted Death rate (per 100,000)**	60	45	65	85	52	46

<b>DIABETES</b>	<b>County</b>					<b>State</b>
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	12.4	.	.	.	.	10.3
Number of hospitalizations	66	43	22	30	36	9,027
Crude rate of hospitalizations (per 100,000)	283	419	168	268	297	212
Median age of hospitalized patients	47	47	60	47	52	52
Total cost of hospitalization (\$)	643,400	433,300	210,100	263,300	380,100	179,747,700
Average length of hospital stay (days)	3	3	4	3	3	6
Number of ED visits	146	106	36	68	78	9,603
Crude rate of ED visits (per 100,000)	625	1,033	275	606	643	226
Median age of ED patients	50	52	47	47	57	52
Total cost of ED visits (\$)	108,700	88,000	20,700	54,000	54,700	13,447,300
Number of deaths**	10	4	6	6	4	1,183
Age-Adjusted Death rate (per 100,000)**	40	50	39	61	21	27

<b>ALL CANCERS</b>	<b>County</b>					<b>State</b>
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	73	34	39	37	36	16,389
Crude rate of hospitalizations (per 100,000)	313	331	298	330	297	385
Median age of hospitalized patients	62	62	67	57	72	62
Total cost of hospitalization (\$)	2,295,900	1,038,000	1,257,900	1,009,600	1,286,300	664,309,500
Average length of hospital stay (days)	7	8	6	6	8	8
Number of deaths**	58	22	35	26	32	8,617
Age-Adjusted Death rate (per 100,000)**	236	270	216	250	220	196

<b>COLORECTAL CANCER</b>	<b>County</b>					<b>State</b>
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	12	4	8	7	5	2,070
Crude rate of hospitalizations (per 100,000)	51	39	61	62	41	49
Median age of hospitalized patients	70	60	75	67	72	67
Total cost of hospitalization (\$)	366,400	98,800	267,600	177,000	189,400	101,377,700
Average length of hospital stay (days)	8	8	8	7	9	10
Number of deaths**	8	3	5	4	4	812
Age-Adjusted Death rate (per 100,000)**	32	36	30	37	25	19

BREAST CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	9	5	4	-	9	1,228
Crude rate of hospitalizations (per 100,000)	74	94	59	-	82	56
Median age of hospitalized patients	52	62	52	-	52	62
Total cost of hospitalization (\$)	205,700	115,300	90,400	-	205,700	26,163,000
Average length of hospital stay (days)	4	7	2	-	4	3
Number of deaths**	7	2	5	-	7	651
Age-Adjusted Death rate (per 100,000)**	50	38	64	-	50	26

CERVICAL CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	-	-	-	-	-	192
Crude rate of hospitalizations (per 100,000)	-	-	-	-	-	9
Median age of hospitalized patients	-	-	-	-	-	47
Total cost of hospitalization (\$)	-	-	-	-	-	4,668,500
Average length of hospital stay (days)	-	-	-	-	-	4
Number of deaths**	2	2	-	-	2	63
Age-Adjusted Death rate (per 100,000)**	14	42	-	-	14	3

LUNG CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	7	4	3	5	2	2,181
Crude rate of hospitalizations (per 100,000)	30	39	23	45	16	51
Median age of hospitalized patients	67	57	72	67	60	67
Total cost of hospitalization (\$)	536,100	304,400	231,700	270,300	265,800	92,775,300
Average length of hospital stay (days)	15	14	16	10	28	9
Number of deaths**	15	6	9	9	6	2,703
Age-Adjusted Death rate (per 100,000)**	63	81	55	85	45	61

PROSTATE CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	9	2	7	9	-	1,209
Crude rate of hospitalizations (per 100,000)	80	41	111	98	-	58
Median age of hospitalized patients	62	60	67	62	-	62
Total cost of hospitalization (\$)	192,300	40,300	152,000	192,300	-	30,356,600
Average length of hospital stay (days)	2	4	2	2	-	4
Number of deaths**	2	-	2	2	-	460
Age-Adjusted Death rate (per 100,000)**	22	-	29	22	-	30

\*Prevalence estimates at regional level

\*\*Mortality data were provided by Division of Biostatistics, Office of Public Health Statistics and Information Systems, DHEC using ICD-10 codes.

All hospitalizations of Blacks include Blacks and Others.

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